PAGE: 1
RAW SEQUENCE LISTING
PATENT APPLICATION *US/08/669,656*
DATE: 08/26/96
TIME: 11:27:0
INPUT SET: *S12333.raw*

1800

This Raw Listing contains the General
Information Section and up to the first 5 pages.

Does Not Comply
SEQUENCE LISTING Corrected Diskette Needed

```
 1
 2
 3    (1)      General Information:
 4
 5         (i) APPLICANT: Wood, John N.
 6                        Akopian, Armen N.
 7
 8        (ii) TITLE OF INVENTION: Ion Channel
 9
--> 10      (iii) NUMBER OF SEQUENCES: 31          <— only 30 showed up.
11
12        (iv) CORRESPONDENCE ADDRESS:
13             (A) ADDRESSEE: ZENECA Phamraceuticals
14             (B) STREET: 1800 Concord Pike, P.O. Box 15437
15             (C) CITY: Wilmington
16             (D) STATE: Delaware
17             (E) COUNTRY: USA
18             (F) ZIP: 19850
19                                                          18C
20         (v) COMPUTER READABLE FORM:
21             (A) MEDIUM TYPE: Floppy disk
22             (B) COMPUTER: IBM PC compatible
23             (C) OPERATING SYSTEM: PC-DOS/MS-DOS
24             (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
25
26        (vi) CURRENT APPLICATION DATA:
27             (A) APPLICATION NUMBER:
28             (B) FILING DATE:
29             (C) CLASSIFICATION:
30
31      (viii) ATTORNEY/AGENT INFORMATION:
32             (A) NAME: Hohenschutz, Liza D.
33             (B) REGISTRATION NUMBER: 33,712
34             (C) REFERENCE/DOCKET NUMBER: PHM.70086
35
36        (ix) TELECOMMUNICATION INFORMATION:
37             (A) TELEPHONE: (302) 886-7466
38
39
40
41    (2) INFORMATION FOR SEQ ID NO:1:
42
43         (i) SEQUENCE CHARACTERISTICS:
44             (A) LENGTH: 6524 base pairs
45             (B) TYPE: nucleic acid
46             (C) STRANDEDNESS: single
```

08/669,656

(2) INFORMATION FOR SEQ ID NO:30:

   (i) SEQUENCE CHARACTERISTICS:
       (A) LENGTH: 30 base pairs
       (B) TYPE: nucleic acid
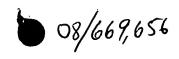   (C) STRANDEDNESS: single
       (D) TOPOLOGY: linear

   (ii) MOLECULE TYPE: cDNA

← last sequence. IS one missing?

   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

GGATCCTCTA GAGTCGACCT GCAGAAGGAA   30

Notice of Availability

Applicant Aid for Biotechnology Computer Readable Form (CRF)
Sequence Listings Submissions

The Patent and Trademark Office (PTO) has developed a computer program, called Checker, that will aid applicants in identifying and correcting errors prior to making submissions for compliance with the Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures (sequence rules: 37 CFR 1.821 through 1.825). (Final rules were published in the *Federal Register* (55 FR 18230) on May 1, 1990, and in the PTO *Official Gazette* (1114 Off.Gaz.PatOffice 29) on May 15, 1990.)

Checker is a DOS-based software program that is intended to assist users in determining whether errors may be present in the sequence listings, and is not intended to guarantee that the submission is error-free.

The most current version of the software will be available via computer downloading (details below). Copies on diskette are also available. Updated software versions will not be automatically mailed out; any updates will be announced in the PTO *Official Gazette*.

The software can be accessed/requested in the following locations:
1) Dial-up access to the Patent and Trademark Office Bulletin Board System.
   Phone number: 703-305-8950
   Cost: Free-of-charge
2) Dial-up access through the Internet. FTP site: ftp.uspto.gov Login as "anonymous". Software is in directory /pub/checker
   Cost: Free-of-charge
3) For diskette copies, telephone requests to 703-306-2600.
   Cost: $25.00

For Further Information Contact: Meredith Beckhardt at 703-308-4212.

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

☑ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.

☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).

☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).

☐ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."

☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).

☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).

☐ 7. Other: _____

Applicant Must Provide:

☑ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".

☑ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.

☑ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216
For CRF Submission Help, call (703) 308-4212
For PatentIn software help, call (703) 308-6856

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE